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09/696,518

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Olivier Daude

FR9-1999-0110 US1

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EXAMINER

LAFORGIA, CHRISTIAN A

ART UNIT

PAPER NUMBER

2131

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**JUN 23 2006**

**Technology Center 2100**

**BEFORE THE BOARD OF PATENT APPEALS  
AND INTERFERENCES**

Application Number: 09/696,518  
Filing Date: October 25, 2000  
Appellant(s): DAUDE ET AL.

Matthew W. Baca, Registration No. 42,277  
For Appellant

**EXAMINER'S ANSWER**

This is in response to the appeal brief filed 17 June 2005.

**(1) Real Party in Interest**

A statement identifying by name the real party in interest is contained in the brief.

**(2) Related Appeals and Interferences**

The examiner is not aware of any related appeals, interferences, or judicial proceedings which will directly affect or be directly affected by or have a bearing on the Board's decision in the pending appeal.

**(3) Status of Claims**

The statement of the status of claims contained in the brief is correct.

**(4) Status of Amendments After Final**

The appellant's statement of the status of amendments after final rejection contained in the brief is correct.

**(5) Summary of Claimed Subject Matter**

The summary of claimed subject matter contained in the brief is correct.

**(6) Grounds of Rejection to be Reviewed on Appeal**

The appellant's statement of the grounds of rejection to be reviewed on appeal is correct.

**(7) Claims Appendix**

The copy of the appealed claims contained in the Appendix to the brief is correct.

**(8) Evidence Relied Upon**

6,424,654	DAIZO	07-2002
5,884,024	LIM et al.	03-1999

Art Unit: 2131

R. Droms et al. Authentication for DHCP Messages. August 1998. IETF: Internet Draft.  
p. 1-13  
Douglas E. Comer "Internetworking with TCP/IP Principles, Protocols and Architectures"  
4th Edition. 2000. p. 455.

"The Authoritative Dictionary of IEEE Standards Terms" 7th Edition. 2000. p. 1233.

**(9) Grounds of Rejection**

The following ground(s) of rejection are applicable to the appealed claims:

Claims 1, 4, 6-10, 14, 19-23, 27, 30, and 32-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,424,654 to Daizo, hereinafter Daizo, in view of "Authentication of DHCP Messages" to Droms et al., hereinafter Droms, and in further view of U.S. Patent No. 5,884,024 to Lim et al., hereinafter Lim.

**(10) Response to Argument**

In response to the Applicant's argument that Droms does not disclose authenticating a server using server identification data, the Examiner respectfully disagrees. As cited in the office action, Droms discloses two techniques for authenticating DHCP servers. Protocol 0 discloses using a server authentication token to authenticate the DHCP server. The token is received by the client and compared to a shared token, if the tokens match the server is authenticated, if not the client must discard the message. With Protocol 1 the server replies with a DHCPOFFER message that includes authentication information, including entity authentication information.

Therefore Droms discloses authenticating a DHCP server using server identification data, as represented by the authentication token and the authentication information included in the DHCPOFFER message.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies, such as the server identification data being an IP address (Specification page 23, lines 27-30, page 24, lines 9-12, Appeal Brief page 7, 2<sup>nd</sup> paragraph), are not recited in the rejected claims. Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Addressing the point that the server identification data is the server's IP address, the Examiner would like to point out that two of the references disclose the format of DHCP messages (Lim and Daizo, both Figure 4) and the other clearly discusses the use of them. As shown by the figure 4 of both Lim and Daizo, DHCP messages clearly include the server's IP address. This is further supported by **Internetworking with TCP/IP: Principles, Protocols,**

Art Unit: 2131

**and Architectures**, by Douglas E. Comer, on page 455, which shows the typical format of a DHCP message. As indicated by Figure 23.5, DHCP messages include the server IP address, as well as the server host name.

Therefore, Daizo, Lim, and Droms all disclose the server supplying identification data as the server's IP address in DHCPOFFER messages.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies, such as the server checker client, are not recited in the rejected claims. Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). As it is defined on page 20 of the specification, a server checker client is merely a program running on a workstation. For the examination purposes the Examiner has given the broadest reasonable interpretation to server checker client and has interpreted it as meaning a client or workstation.

In response to the applicant's argument that the references fail to disclose unicasting host configuration requests from the client to the unauthorized DHCP server, the Examiner respectfully disagrees. **The Authoritative Dictionary of IEEE Standards Terms, 7<sup>th</sup> Edition**, hereinafter IEEE, defines unicasting as a transmission mode in which a single message is sent to a single network destination, i.e. one-to-one. As disclosed in Lim in column 2, lines 27-34, a single client obtains IP address leases from a single DHCP server, thereby disabling the server.

Therefore, Lim teaches unicasting host configuration requests from the client to the unauthorized DHCP server.

In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, as cited in the office action, the references provide a teaching, suggestion and motivation to combine the references. Droms states on pages 1 and 2 that detecting an unauthorized DHCP server would prevent a denial of service attack directed toward the clients. The detecting of the unauthorized server would establish a "rogue" server with the intent of providing incorrect configuration information to the client in order to conduct a "man in the middle" attack. Lim also states that by a single client obtaining all the IP address leases from a single DHCP server it prevents other clients from obtaining an IP address, thereby preventing clients from receiving false configuration information and becoming the victims of denial of service or man in the middle attacks.

In response to the Applicant's response that none of the references disclose a server table, or a list of authorized DHCP servers, the Examiner disagrees. Lim discloses a trusted identifier database in figure 6, and column 6, line 55 to column 7, line 20.

Therefore, the Lim discloses the use of a server table and a list of authorized servers. For the above reasons, it is believed that the rejections should be sustained.

Art Unit: 2131

Respectfully submitted,

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clf

June 14, 2006

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